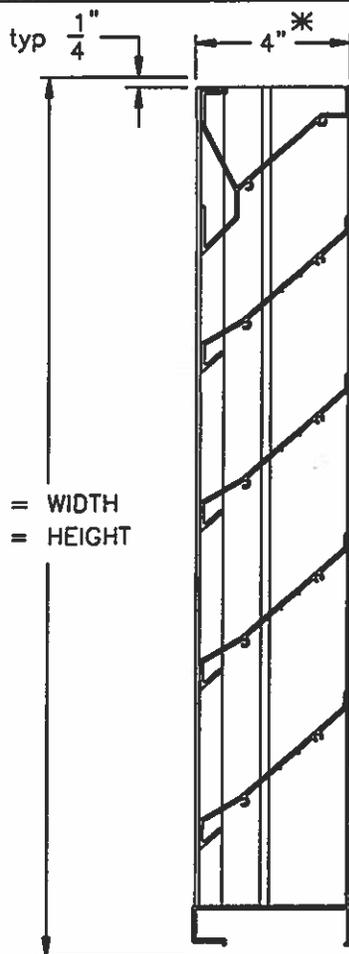
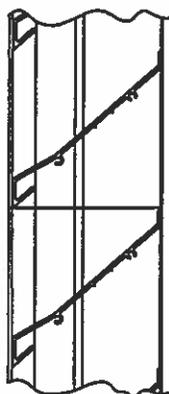


EXTRUDED ALUMINUM, 4" DEEP, FIXED HIGH PERFORMANCE TYPE BLADE

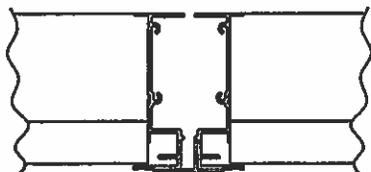


A = WIDTH
B = HEIGHT

SECTION VIEW

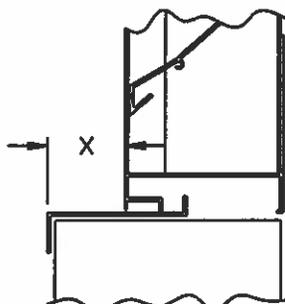


STANDARD HORIZONTAL MULLION

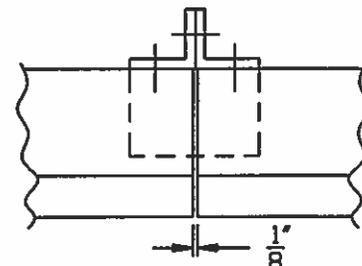


STANDARD VERTICAL MULLION

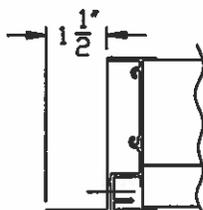
- MODEL EL-27
STANDARD SPECIFICATIONS**
- FRAME: 4" DEEP CHANNEL, .081" THICK 6063-T5 EXTRUDED ALUMINUM ALLOY.
 - BLADES: .081" THICK 6063-T5 EXTRUDED ALUMINUM ALLOY.
 - FINISH: MILL.
 - SCREEN: 1/2" REMOVABLE EXPANDED ALUMINUM BIRD SCREEN, LOCATED ON INTERIOR.
 - MAXIMUM PANEL SIZE: 96" X 96".
 - MINIMUM PANEL SIZE: 12" X 12".
 - DIMENSIONS: "A" (WIDTH) AND "B" (HEIGHT) ARE OPENING SIZES. LOUVERS ARE MADE 1/2" UNDERSIZE.
 - * PANELS OVER 60" WIDE WILL BE 5-1/2" DEEP DUE TO A VERTICAL INTERIOR BLADE SUPPORT ANGLE.



EXTENDED SILL
OPTIONAL



ARCHITECTURAL VERTICAL MULLION
OPTIONAL



FLANGED FRAME
OPTIONAL
(JAMB SHOWN)



L&D certifies that the model EL-27 louver shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to air performance ratings and water penetration ratings.

L LOUVERS & DAMPERS
A MESTEK COMPANY

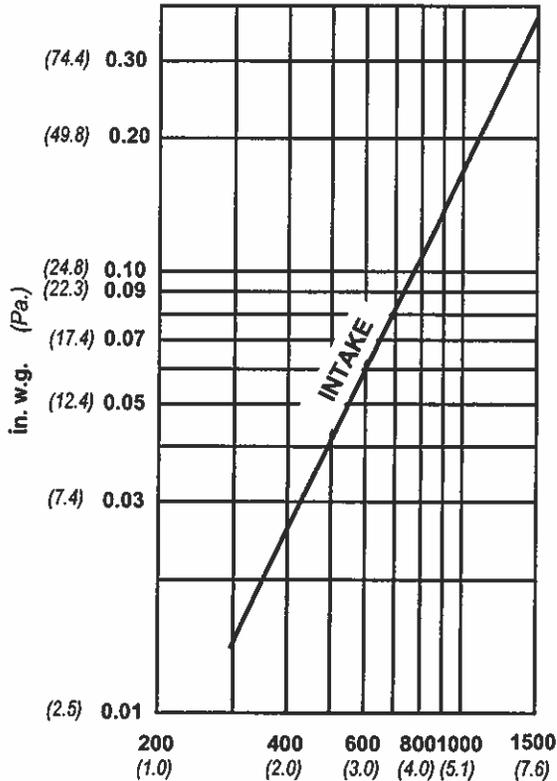
7435 INDUSTRIAL ROAD FLORENCE, KY
Phone (859) 647-2299 Fax (859) 647-7810

EL-27 STATIONARY LOUVER

DRN. BY ESS	DWG. NO. EL-27	REV.
DATE 01-04-01		

Water Penetration : .01 oz. (3.0 g.) at 881 fpm (4.48 m/s) recommended free area velocity
Pressure Drop : .13 in. wg. (32 Pa.) at 881 fpm (4.48 m/s) and 7841 SCFM (3.7 scm/s)
Free Area : 8.9 sq.ft. (0.827 sq. m.) = 55.6% for 48" x 48" (1.22 m x 1.22 m) test size

PRESSURE DROP

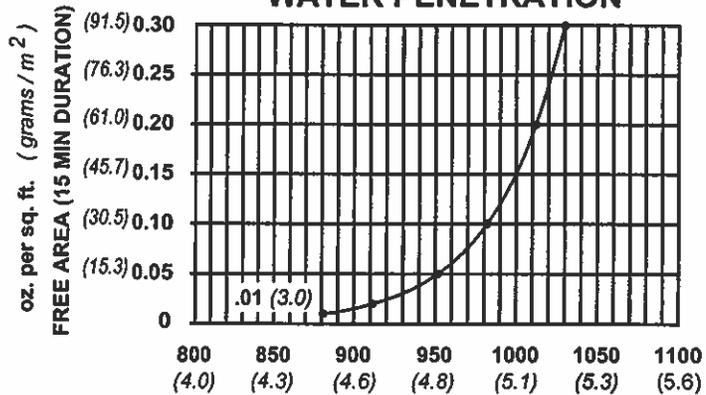


VELOCITY THROUGH FREE AREA FPM (meters / sec)
 standard air - .075 lbs. per cu. ft.
 Ratings do not include the effect of a bird screen

FREE AREA IN SQUARE FEET (sq. meters)

		WIDTH								
		in mm	12 304	24 609	36 914	48 1219	60 1524	72 1828	84 2133	96 2438
HEIGHT	12 304	0.26 0.02	0.64 0.06	1.02 0.10	1.40 0.13	1.74 0.16	2.12 0.20	2.50 0.23	2.88 0.27	
	24 609	0.72 0.07	1.77 0.16	2.82 0.26	3.87 0.36	4.78 0.44	5.83 0.54	6.88 0.64	7.93 0.74	
	36 914	1.18 0.11	2.90 0.27	4.61 0.43	6.33 0.59	7.83 0.73	9.54 0.89	11.26 1.05	12.98 1.21	
	48 1219	1.64 0.15	4.02 0.37	6.40 0.59	8.90 0.83	10.87 1.01	13.26 1.23	15.64 1.45	18.02 1.67	
	60 1524	2.10 0.19	5.15 0.48	8.20 0.76	11.25 1.05	13.92 1.29	16.97 1.58	20.02 1.86	23.07 2.14	
	72 1828	2.56 0.24	6.27 0.58	9.99 0.93	13.71 1.27	16.96 1.58	20.68 1.92	24.40 2.27	28.12 2.61	
	84 2133	3.02 0.28	7.40 0.69	11.79 1.09	16.17 1.50	20.01 1.86	24.40 2.27	28.78 2.67	33.17 3.08	
	96 2438	3.47 0.32	8.53 0.79	13.58 1.26	18.63 1.73	23.06 2.14	28.11 2.61	33.16 3.08	38.22 3.55	

WATER PENETRATION



VELOCITY THROUGH FREE AREA FPM (meters / sec.)
 Both maximum recommended free area velocity and beginning of water penetration are 881 fpm at standard air - .075 lbs. per cu. ft.
 The above water penetration data is based on mill finish, 48" x 48" test size per AMCA Standard 511.



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EL-27

Below is an explanation of how to use the AMCA performance data for the recommended free area velocity of 881 fpm (4.48 m/s).

- To determine minimum free area required for louver:
- Step #1:** Divide the required CFM flow by the maximum recommended free area velocity.
- Step #2:** Select the most desirable louver size, from the free area table, that meets the minimum free area requirement.
- Step #3:** Compare specified performance to the certified water penetration and pressure drop ratings.

Openings that require multiple louver panels in both width and height will require internal structural supports. It is recommended that large openings be divided with structural members so that the louvers will span either width or height with a single panel. Unusually high wind loading may require structural supports on non-multiple wide and multiple high assemblies. Structural supports and mounting accessories are not supplied as a standard.

Example: Given 15,000 CFM design flow
Step #1:
 min. free area = $\frac{\text{Design CFM}}{\text{Max. Recommended Velocity}}$
 = $\frac{15,000}{881}$ = 17.0 sq. ft.

Step #2: From the free area table above the approximate louver size is 96" x 48" = (18.02 sq. ft.)